



## Irreversible UV Photochromic colorant **Photolock AQ Ink**

### Product Outline

Photolock AQ Ink is a slurry with the micro-encapsulated irreversible photochromic colorant behaving from colorless to blue-color changing gradually according to the amount/degree of UV light.

Compounding it into various waterbased printing paste and printing onto various substrates, the print with the irreversible photochromic effect can be achieved.

Photolock color is irreversible and shows its blue color according to the accumulated amount of UV light.

It is ideal to use Photolock for a simple Light-Meter, Sun-burn indicator, UV-light historic indicator.

### Property

	Photolock AQ Ink
Appearance	Pale Blueish Paste
Component	Micro-encapsulated irreversible Photochromic colorant / Water
Ave. Particle Size	2.0 ~ 4.0 $\mu$ m
pH	6.5 $\pm$ 0.5
Density (g/cm <sup>3</sup> )	1.04 $\pm$ 0.05
Viscosity (mPa · s) (at 25°C)	400 ~ 6,500
Ionicity	Anionic
Solid Content	51.5 $\pm$ 1.5%

### Color / Temp. Types

#### Available Color

Blue

#### Temperature Types

Type #3

Changes its color by minutes

Type #4

Changes its color by hours

### Considerations

- Keep always sealed and store in cool and dark place. Shelf Life ; 6 months under 30°C
- During long storage, a separation may happen, so please, stir well before use.
- The photochromic color (appeared) may vary depend on the dosage and the thickness of the print.
- To laminate the print, the color change sensitivity may vary depend on the kind of film and the thickness of the film.
- This product contains 'formaldehyde' , so please refer the SDS and judge the applicability.

\*Carefully test to see the applicability before bulk use.



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